Web site

Visit our Web site for complete information on rules, penalties, registration, and other official information.

http://moonbuggy.msfc.nasa.gov

A course map and description present the general course outline.

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10th Anniversary Great Moonbuggy Race

Huntsville, Alabama

The Great Moonbuggy Race

The Great Moonbuggy Race started in 1994 to commemorate the 25th Anniversary of the Apollo 11 lunar landing. This event is held each spring in Huntsville, AL.

Objectives

In support of the NASA Strategic plan, NASA's Marshall Space Flight Center seeks to involve the educational community in our endeavors to inspire America's students, create learning opportunities, and enlighten inquisitive minds.

College, university, and high school students may find that participation in the Great Moonbuggy Race gives them an opportunity to apply engineering skills and develop team spirit in an activity that will enhance their awareness of human exploration and the development of space.

College and university engineering programs may find participation in the Great Moonbuggy Race useful in meeting components of EC2000 criteria; those required for accreditation by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Design

- Students design, build, and race the vehicle.
- The design is based on the original NASA Lunar Roving Vehicle.
- The vehicle addresses a series of engineering problems faced by the original Moonbuggy Team.
- Vehicles are expected to be of a "proof-of-concept" and engineering test module nature, rather than final production models.

Rules

- Must be the work of students at an accredited high school or university.
- Human powered (no energy storage devices) by one male and one female.
- Unassembled dimensions must be 4 ft by 4 ft by 4 ft volume.
- Weight—the vehicle must be lifted and carried 20 feet by two passengers to the starting line (unassembled and without aid).
- Assembled dimensions: Maximum width of four (4) feet, including wheels.

Prizes

Prizes will be awarded to the top three teams in both the High School and College Division. Awards go to the six registered team members and the faculty/instructor advisor of each winning team.

A prize will also be awarded to the team whose moonbuggy design, not race performance, represents the best technical approach toward solving the engineering problem of navigating the simulated lunar surface.